## Montana Board of Oil and Gas Conservation Environmental Assessment

**Operator:** Mountain View Energy Well Name/Number: Red Creek 54 Location: NW SW Section 12 T37N R5W County: Glacier MT; Field (or Wildcat) Red Creek **Air Quality** (possible concerns) Long drilling time: No, 4 to 5 days drilling time. Unusually deep drilling (high horsepower rig): No, single derrick drilling rig to drill to 2900' TD. Possible H2S gas production: Yes, slight low ppm H2S associated with Cut Bank/Madison Oil Production. In/near Class I air quality area: No Class I air quality area. Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211. Mitigation: X Air quality permit (AQB review) \_\_ Gas plants/pipelines available for sour gas Special equipment/procedures requirements Other: Comments: No special concerns – using small rig to drill to 2900' TD. **Water Quality** (possible concerns) Salt/oil based mud: No, freshwater, freshwater mud system and/or air & air mist. High water table: None expected. Surface drainage leads to live water: No, nearest drainage is an unnamed ephemeral tributary drainage to the Red River, also an ephemeral drainage, about 1/8 of a mile to the south and about ¼ of a mile to the east from this location. Water well contamination: No, closest water wells are about ½ of a mile or further away in any direction. Deepest of these water wells are 120'. This well will drill to 350' with freshwater and or air mist, set 350' of steel surface casing and cement it to surface to protect surface and ground waters. Porous/permeable soils: No, sandy bentonitic soils. Class I stream drainage: No Class I stream drainages. Mitigation: Lined reserve pit X Adequate surface casing \_\_ Berms/dykes, re-routed drainage \_\_ Closed mud system

Comments: 350' of surface casing will be set and cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems to be used.

\_\_ Off-site disposal of solids/liquids (in approved facility)

\_ Other:

## Soils/Vegetation/Land Use

(possible concerns)
Steam crossings: No, no streams will be crossed, only ephemeral drainages.
High erosion potential: No, small cut, up to 2.2' and small fill, up to 3.8', required.
Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If
productive unused portion of drillsite will be reclaimed.
Unusually large wellsite: No, 200'X200' location size required.
Damage to improvements: Slight, surface use is cultivation.
Conflict with existing land use/values: Slight, surface use cultivated field.
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other
Comments: Access will be through existing county roads and existing well access
roads. A short access will be built into this location of about 1/16 of a mile. Drilling and
reserve pit will be unlined. Reserve pit and drill pit fluids and cuttings will be allowed to
dry in the pits. Once pits are dry, they will be filled with subsoil and the topsoil will be the
last cover. No special concerns
Health Hazards/Noise
(possible concerns)
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Other agency review (DFWP, federal agencies, DSL) Screening/fencing of pits, drillsite
Other:
Comments: <u>Private cultivated surface lands.</u> No live water. No Grizzly Bear or Canada Lynx inhabit this area. No concerns.
Canada Lynx Innabit this area. No concerns.
Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites: None identified.  Mitigation
avoidance (topographic tolerance, location exception)
other agency review (SHPO, DSL, federal agencies)
Other: Comments: Private cultivated surface lands. No concerns.
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Social/Economic
(possible concerns)
Substantial effect on tax base
Create demand for new governmental services
Population increase or relocation
Comments: No concerns. A development oil well in an existing oilfield, Red Creek Oil Field.
Remarks or Special Concerns for this site
Wall in a 2000' Cut Donk and Madison Formation toot
Well is a 2900' Cut Bank and Madison Formation test.
Summary: Evaluation of Impacts and Cumulative effects
No significant impacts expected in the drilling of this oil well. Some short term surface
impacts will occur.
I conclude that the approval of the subject Notice of Intent to Drill (does/does not)
constitute a major action of state government significantly affecting the quality of the human environment, and (does/ <u>does not</u> ) require the preparation of an environmental
impact statement.
Prepared by (BOGC):_\s\Steven Sasaki
(title:) Chief Field Inspector
Date: March 29, 2010 Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC
<u>website</u>
(Name and Agency)
Glacier County water wells.
(subject discussed)
March 29, 2010
(date)
US Fish and Wildlife, Region 6 website
(Name and Agency)
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES
MONTANA COUNTIES, Glacier County
(subject discussed)
March 29, 2010
(date)
If location was inspected before permit approval:
Inspection date:
Inspector:
Others present during inspection: